

In the Specification:

Please amend the specification as shown:

Please delete the paragraphs on page 10, lines 1-19 and replace them with the following paragraphs:

Examples of osteocalcins are:

Osteocalcin (7-19) (human): H-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Glu-Pro-Arg-OH (SEQ ID NO: 1);

Osteocalcin (37-49) (human): H-Gly-Phe-Gln-Glu-Ala-Tyr-Arg-Arg-Phe-Tyr-Gly-Pro-Val-OH (SEQ ID NO: 2);

(Tyr³⁸, Phe^{42,46}) Osteocalcin (38-49): H-Tyr-Gln-Glu-Ala-Phe-Arg-Arg-Phe-Gly-Pro-Val-OH (SEQ ID NO: 3);

Osteocalcin (1-49) (human):

H-Tyr-Leu-Tyr-Gln-Trp-Leu-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Gla-Pro-Arg-Arg-Gla-Val-Cys-Gla-Leu-Asn-Pro-Asp-Cys-Asp-Glu-Leu-Ala-Asp-His-Ile-Gly-Phe-Gln-Gln-Ala-Tyr-Arg-Arg-Phe-Tyr-Gly-Pro-Val-OH (Gla = gamma-carboxy-L-glutamyl) (SEQ ID NO: 4).

Osteogenic growth peptides (OGP) are known. Such a peptide with 14 amino acids corresponds, for example, to the formula: H-Ala-Leu-Lys-Arg-Gln-Gly-Arg-Thr-Leu-Tyr-Gly-Phe-Gly-Gly-OH (SEQ ID NO: 5).

Please delete the paragraph on page 18, lines 6-13 and replace it with the following paragraph:

B) Subsequently, the implant obtained in section A) was left in a solution consisting of pure water, which contained the osteogenic growth peptide (OGP) of the formula: H-Ala-Leu-Lys-Arg-Gln-Gly-Arg-Thr-Leu-Tyr-Gly-Phe-Gly-Gly-OH (SEQ ID NO: 5) in a concentration of 100 µmol per liter, under nitrogen for 24 hours. The implant was removed and washed with pure water under nitrogen. Measurement revealed a coverage of about 10% of the metal surface. The implant was subsequently

Please delete the paragraph on page 18, lines 18-22 and replace it with the following paragraph:

b) sealed directly in a glass ampule which was filled with pure water which was adjusted to pH = 9 with 0.2M sodium bicarbonate and contained the pentapeptide Gly-Arg-Gly-Asp-Ser (SEQ ID NO: 6) in a concentration of 1 μ mol/l. The glass ampule was opened after 4 weeks, briefly washed in isotonic saline, and implanted;

Please delete the paragraphs on page 19, lines 1-24 and replace them with the following paragraphs:

Example 2

Example 1 was repeated, but with the proviso that the osteogenic growth peptide (OGP) used in section B) was replaced by osteocalcin (7-19) (human) of the formula: H-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Glu-Pro-Arg-OH (SEQ ID NO: 1). Results analogous to those according to example 1, section B were obtained.

Example 3

Example 1 was repeated, with the proviso that the acid treatment according to example 1, section A is followed by introduction into pure water containing 0.15 mol/l NaCl and where appropriate 0.005 mol/l CaCl₂. The osteogenic growth peptide (OGP) or osteocalcin (7-19) (human) of the formula: H-Gly-Ala-Pro-Val-Pro-Tyr-Pro-Asp-Pro-Leu-Glu-Pro-Arg-OH (SEQ ID NO: 1) in a concentration of 100 micromol/l was added to this electrolyte. The whole was sealed in a glass ampule under nitrogen. The glass ampule was opened after 4 weeks, the implant obtained was removed and was implanted into the upper jaw of a minipig without any further treatment, i.e. without drying or washing. The anchoring was measured as the loosening torque in Ncm (mean values) after 2 weeks, after 3 weeks, and after 4 weeks. Results analogous to those according to example 1 were obtained.